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# 30 1600

## RAW SEQUENCE LISTING

DATE: 11/13/2002

PATENT APPLICATION: US/09/142,471B

TIME: 16:31:34

Input Set : A:\012627-009.ST25.txt

Output Set: N:\CRF4\11132002\I142471B.raw

4 <110> APPLICANT: ROEWKAMP, Walter  
 5 ROSE-JOHN, Stefan  
 7 <120> TITLE OF INVENTION: CONJUGATE FOR MODIFYING INTERACTIONS BETWEEN PROTEINS  
 9 <130> FILE REFERENCE: 012627-009  
 11 <140> CURRENT APPLICATION NUMBER: 09/142,471B  
 12 <141> CURRENT FILING DATE: 1998-11-04  
 14 <150> PRIOR APPLICATION NUMBER: PCT/DE97/00458  
 15 <151> PRIOR FILING DATE: 1997-03-07  
 17 <150> PRIOR APPLICATION NUMBER: DE 196 08 813.5  
 18 <151> PRIOR FILING DATE: 1996-03-07  
 20 <160> NUMBER OF SEQ ID NOS: 16  
 22 <170> SOFTWARE: PatentIn Ver. 2.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 1627  
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 27 <213> ORGANISM: Unknown  
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 30 <221> NAME/KEY: sig\_peptide  
 31 <222> LOCATION: (34)..(90)  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: mat\_peptide  
 35 <222> LOCATION: (91)..(1608)  
 37 <220> FEATURE:  
 38 <221> NAME/KEY: CDS  
 39 <222> LOCATION: (34)..(1608)  
 41 <220> FEATURE:  
 42 <223> OTHER INFORMATION: Description of Unknown Organism:A conjugate  
 43 comprising two polypeptides with a mutual  
 44 affinity.  
 46 <400> SEQUENCE: 1  
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 48 Met Leu Ala Val Gly Cys Ala  
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 51 ctg ctg gct gcc ctg ctg gcc gcg ccg gga gcg gcg ctg gcc cca agg 102  
 52 Leu Leu Ala Ala Leu Leu Ala Ala Pro Gly Ala Ala Leu Ala Pro Arg  
 53 -10 -5 -1 1  
 55 cgc tgc cct gcg cag gag gtg gca aga ggc gtg ctg acc agt ctg cca 150  
 56 Arg Cys Pro Ala Gln Glu Val Ala Arg Gly Val Leu Thr Ser Leu Pro  
 57 5 10 15 20  
 59 gga gac agc gtg act ctg acc tgc ccg ggg gta gag ccg gaa gac aat 198  
 60 Gly Asp Ser Val Thr Leu Thr Cys Pro Gly Val Glu Pro Glu Asp Asn  
 61 25 30 35  
 63 gcc act gtt cac tgg gtg ctc agg aag ccg gct gca ggc tcc cac ccc 246

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64	Ala	Thr	Val	His	Trp	Val	Leu	Arg	Lys	Pro	Ala	Ala	Gly	Ser	His	Pro	
65				40					45					50			
67	agc	aga	tgg	gct	ggc	atg	gga	agg	agg	ctg	ctg	ctg	agg	tcg	gtg	cag	294
68	Ser	Arg	Trp	Ala	Gly	Met	Gly	Arg	Arg	Leu	Leu	Leu	Arg	Ser	Val	Gln	
69			55					60					65				
71	ctc	cac	gac	tct	gga	aac	tat	tca	tgc	tac	cgg	gcc	ggc	cgc	cca	gct	342
72	Leu	His	Asp	Ser	Gly	Asn	Tyr	Ser	Cys	Tyr	Arg	Ala	Gly	Arg	Pro	Ala	
73		70				75						80					
75	ggg	act	gtg	cac	ttg	ctg	gtg	gat	gtt	ccc	ccc	gag	gag	ccc	cag	ctc	390
76	Gly	Thr	Val	His	Leu	Leu	Val	Asp	Val	Pro	Pro	Glu	Glu	Pro	Gln	Leu	
77	85				90					95					100		
79	tcc	tgc	ttc	cgg	aag	agc	ccc	ctc	agc	aat	gtt	gtt	tgt	gag	tgg	ggt	438
80	Ser	Cys	Phe	Arg	Lys	Ser	Pro	Leu	Ser	Asn	Val	Val	Cys	Glu	Trp	Gly	
81				105					110					115			
83	cct	cgg	agc	acc	cca	tcc	ctg	acg	aca	aag	gct	gtg	ctc	ttg	gtg	agg	486
84	Pro	Arg	Ser	Thr	Pro	Ser	Leu	Thr	Thr	Lys	Ala	Val	Leu	Leu	Val	Arg	
85				120					125				130				
87	aag	ttt	cag	aac	agt	ccg	gcc	gaa	gac	ttc	cag	gag	ccg	tgc	cag	tat	534
88	Lys	Phe	Gln	Asn	Ser	Pro	Ala	Glu	Asp	Phe	Gln	Glu	Pro	Cys	Gln	Tyr	
89			135					140					145				
91	tcc	cag	gag	tcc	cag	aag	ttc	tcc	tgc	cag	tta	gca	gtc	ccg	gag	gga	582
92	Ser	Gln	Glu	Ser	Gln	Lys	Phe	Ser	Cys	Gln	Leu	Ala	Val	Pro	Glu	Gly	
93		150				155						160					
95	gac	agc	tct	ttc	tac	ata	gtg	tcc	atg	tgc	gtc	gcc	agt	agt	gtc	ggg	630
96	Asp	Ser	Ser	Phe	Tyr	Ile	Val	Ser	Met	Cys	Val	Ala	Ser	Ser	Val	Gly	
97	165				170					175					180		
99	agc	aag	ttc	agc	aaa	act	caa	acc	ttt	cag	ggt	tgt	gga	atc	ttg	cag	678
100	Ser	Lys	Phe	Ser	Lys	Thr	Gln	Thr	Phe	Gln	Gly	Cys	Gly	Ile	Leu	Gln	
101				185					190					195			
103	cct	gat	ccg	cct	gcc	aac	atc	aca	gtc	act	gcc	gtg	gcc	aga	aac	ccc	726
104	Pro	Asp	Pro	Pro	Ala	Asn	Ile	Thr	Val	Thr	Ala	Val	Ala	Arg	Asn	Pro	
105				200					205					210			
107	cgc	tgg	ctc	agt	gtc	acc	tgg	caa	gac	ccc	cac	tcc	tgg	aac	tca	tct	774
108	Arg	Trp	Leu	Ser	Val	Thr	Trp	Gln	Asp	Pro	His	Ser	Trp	Asn	Ser	Ser	
109			215					220					225				
111	ttc	tac	aga	cta	cgg	ttt	gag	ctc	aga	tat	cgg	gct	gaa	cgg	tca	aag	822
112	Phe	Tyr	Arg	Leu	Arg	Phe	Glu	Leu	Arg	Tyr	Arg	Ala	Glu	Arg	Ser	Lys	
113		230				235						240					
115	aca	ttc	aca	aca	tgg	atg	gtc	aag	gac	ctc	cag	cat	cac	tgt	gtc	atc	870
116	Thr	Phe	Thr	Thr	Trp	Met	Val	Lys	Asp	Leu	Gln	His	His	Cys	Val	Ile	
117	245				250					255				260			
119	cac	gac	gcc	tgg	agc	ggc	ctg	agg	cac	gtg	gtg	cag	ctt	cgt	gcc	cag	918
120	His	Asp	Ala	Trp	Ser	Gly	Leu	Arg	His	Val	Val	Gln	Leu	Arg	Ala	Gln	
121				265					270					275			
123	gag	gag	ttc	ggg	caa	ggc	gag	tgg	agc	gag	tgg	agc	ccg	gag	gcc	atg	966
124	Glu	Glu	Phe	Gly	Gln	Gly	Glu	Trp	Ser	Glu	Trp	Ser	Pro	Glu	Ala	Met	
125			280						285					290			
127	ggc	acg	cct	tgg	aca	gaa	tcc	agg	agt	cct	cca	gct	cga	gga	ggt	gga	1014
128	Gly	Thr	Pro	Trp	Thr	Glu	Ser	Arg	Ser	Pro	Pro	Ala	Arg	Gly	Gly	Gly	

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129          295          300          305
131 ggt tct gga ggt gga ggt tct gga ggt gga ggt tct gtc gag cca gta 1062
132 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Val Glu Pro Val
133      310          315          320
135 ccc cca gga gaa gat tcc aaa gat gta gcc gcc cca cac aga cag cca 1110
136 Pro Pro Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His Arg Gln Pro
137 325          330          335          340
139 ctc acc tct tca gaa cga att gac aaa caa att cgg tac atc ctc gac 1158
140 Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile Leu Asp
141          345          350          355
143 ggc atc tca gcc ctg aga aag gag aca tgt aac aag agt aac atg tgt 1206
144 Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys
145          360          365          370
147 gaa agc agc aaa gag gca ctg gca gaa aac aac ctg aac ctt cca aag 1254
148 Glu Ser Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys
149          375          380          385
151 atg gct gaa aaa gat gga tgc ttc caa tct gga ttc aat gag gag act 1302
152 Met Ala Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr
153          390          395          400
155 tgc ctg gtg aaa atc atc act ggt ctt ttg gag ttt gag gta tac cta 1350
156 Cys Leu Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val Tyr Leu
157 405          410          415          420
159 gag tac ctc cag aac aga ttt gag agt agt gag gaa caa gcc aga gct 1398
160 Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala Arg Ala
161          425          430          435
163 gtg cag atg agt aca aaa gtc ctg atc cag ttc ctg cag aaa aag gca 1446
164 Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala
165          440          445          450
167 aag aat cta gat gca ata acc acc cct gac cca acc aca aat gcc agc 1494
168 Lys Asn Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser
169          455          460          465
171 ctg ctg acg aag ctg cag gca cag aac cag tgg ctg cag gac atg aca 1542
172 Leu Leu Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln Asp Met Thr
173          470          475          480
175 act cat ctc att ctg cgc agc ttt aag gag ttc ctg cag tcc agc ctg 1590
176 Thr His Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln Ser Ser Leu
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179 agg gct ctt cgg caa atg tagcatgggc accgtcgac 1627
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186 <212> TYPE: PRT
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189 <220> FEATURE:
190 <223> OTHER INFORMATION: Description of Unknown Organism:A conjugate
191 comprising two polypeptides with a mutual
192 affinity.
195 <400> SEQUENCE: 2

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## RAW SEQUENCE LISTING

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196 Met Leu Ala Val Gly Cys Ala Leu Leu Ala Ala Leu Leu Ala Ala Pro
197          -15          -10          -5
199 Gly Ala Ala Leu Ala Pro Arg Arg Cys Pro Ala Gln Glu Val Ala Arg
200          -1   1          5          10
202 Gly Val Leu Thr Ser Leu Pro Gly Asp Ser Val Thr Leu Thr Cys Pro
203          15          20          25
205 Gly Val Glu Pro Glu Asp Asn Ala Thr Val His Trp Val Leu Arg Lys
206          30          35          40          45
208 Pro Ala Ala Gly Ser His Pro Ser Arg Trp Ala Gly Met Gly Arg Arg
209          50          55          60
211 Leu Leu Leu Arg Ser Val Gln Leu His Asp Ser Gly Asn Tyr Ser Cys
212          65          70          75
214 Tyr Arg Ala Gly Arg Pro Ala Gly Thr Val His Leu Leu Val Asp Val
215          80          85          90
217 Pro Pro Glu Glu Pro Gln Leu Ser Cys Phe Arg Lys Ser Pro Leu Ser
218          95          100          105
220 Asn Val Val Cys Glu Trp Gly Pro Arg Ser Thr Pro Ser Leu Thr Thr
221          110          115          120          125
223 Lys Ala Val Leu Leu Val Arg Lys Phe Gln Asn Ser Pro Ala Glu Asp
224          130          135          140
226 Phe Gln Glu Pro Cys Gln Tyr Ser Gln Glu Ser Gln Lys Phe Ser Cys
227          145          150          155
229 Gln Leu Ala Val Pro Glu Gly Asp Ser Ser Phe Tyr Ile Val Ser Met
230          160          165          170
232 Cys Val Ala Ser Ser Val Gly Ser Lys Phe Ser Lys Thr Gln Thr Phe
233          175          180          185
235 Gln Gly Cys Gly Ile Leu Gln Pro Asp Pro Pro Ala Asn Ile Thr Val
236          190          195          200          205
238 Thr Ala Val Ala Arg Asn Pro Arg Trp Leu Ser Val Thr Trp Gln Asp
239          210          215          220
241 Pro His Ser Trp Asn Ser Ser Phe Tyr Arg Leu Arg Phe Glu Leu Arg
242          225          230          235
244 Tyr Arg Ala Glu Arg Ser Lys Thr Phe Thr Thr Trp Met Val Lys Asp
245          240          245          250
247 Leu Gln His His Cys Val Ile His Asp Ala Trp Ser Gly Leu Arg His
248          255          260          265
250 Val Val Gln Leu Arg Ala Gln Glu Glu Phe Gly Gln Gly Glu Trp Ser
251          270          275          280          285
253 Glu Trp Ser Pro Glu Ala Met Gly Thr Pro Trp Thr Glu Ser Arg Ser
254          290          295          300
256 Pro Pro Ala Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly
257          305          310          315
259 Gly Gly Ser Val Glu Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val
260          320          325          330
262 Ala Ala Pro His Arg Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys
263          335          340          345
265 Gln Ile Arg Tyr Ile Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr
266          350          355          360          365
268 Cys Asn Lys Ser Asn Met Cys Glu Ser Ser Lys Glu Ala Leu Ala Glu

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269          370          375          380
271 Asn Asn Leu Asn Leu Pro Lys Met Ala Glu Lys Asp Gly Cys Phe Gln
272          385          390          395
274 Ser Gly Phe Asn Glu Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu
275          400          405          410
277 Leu Glu Phe Glu Val Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser
278          415          420          425
280 Ser Glu Glu Gln Ala Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile
281 430          435          440          445
283 Gln Phe Leu Gln Lys Lys Ala Lys Asn Leu Asp Ala Ile Thr Thr Pro
284          450          455          460
286 Asp Pro Thr Thr Asn Ala Ser Leu Leu Thr Lys Leu Gln Ala Gln Asn
287          465          470          475
289 Gln Trp Leu Gln Asp Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys
290          480          485          490
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293          495          500          505
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299 <213> ORGANISM: Unknown
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310 <221> NAME/KEY: mat_peptide
311 <222> LOCATION: (91)..(1593)
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Description of Unknown Organism:A conjugate
315     comprising two polypeptides with a mutual
316     affinity.
318 <400> SEQUENCE: 3
319 gtcgacgcat ggagtggtag ccgaggagga agc atg ctg gcc gtc ggc tgc gcg 54
320          Met Leu Ala Val Gly Cys Ala
321          -15
323 ctg ctg gct gcc ctg ctg gcc gcg ccg gga gcg gcg ctg gcc cca agg 102
324 Leu Leu Ala Ala Leu Leu Ala Ala Pro Gly Ala Ala Leu Ala Pro Arg
325          -10          -5          -1 1
327 cgc tgc cct gcg cag gag gtg gca aga ggc gtg ctg acc agt ctg cca 150
328 Arg Cys Pro Ala Gln Glu Val Ala Arg Gly Val Leu Thr Ser Leu Pro
329 5          10          15          20
331 gga gac agc gtg act ctg acc tgc ccg ggg gta gag ccg gaa gac aat 198
332 Gly Asp Ser Val Thr Leu Thr Cys Pro Gly Val Glu Pro Glu Asp Asn
333          25          30          35
335 gcc act gtt cac tgg gtg ctc agg aag ccg gct gca ggc tcc cac ccc 246
336 Ala Thr Val His Trp Val Leu Arg Lys Pro Ala Ala Gly Ser His Pro

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**VERIFICATION SUMMARY**

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